



18145

DEPARTMENT OF THE NAVY  
OFFICE OF THE CHIEF OF NAVAL OPERATIONS  
WASHINGTON, DC 20350-2000

IN REPLY REFER TO

OPNAVINST 8000.14C  
N411D  
22 March 1993

OPNAV INSTRUCTION 8000.14C

From: Chief of Naval Operations

Subj: MATERIEL PLANNING STUDY

Ref: (a) SECNAVINST 4000.5B (NOTAL)  
(b) OPNAVINST S8010.12E (NOTAL)  
(c) CNO ltr 8000 Ser 411D/3U588314 of 16 Mar 92

Encl: (1) Instructions for Preparation of Materiel Planning  
Studies  
(2) List of End Items/Components to be Covered  
(3) Sample OPNAV 8000/4, Materiel Planning Study

1. Purpose. To establish a uniform procedure within Department of Navy for periodic presentation and review of end item and component requirements, assets, objectives and procurement. References (a) and (b) provide guidance for ammunition programs.

2. Cancellation. OPNAVINST 8000.14B.

3. Scope and Application

a. This instruction applies to Naval Air Systems Command, Naval Sea Systems Command, Crane Division, Naval Surface Warfare Center (PM4), Joint Cruise Missile Office and activities responsible for preparation and review of Materiel Planning Studies (MPS).

b. MPS will be used for presenting requirements, assets, objectives and procurement information within Navy for Non- Nuclear Expendable Ordnance end items and related/supporting ancillary components.

4. Implementation

a. MPS will be prepared on OPNAV 8000/4 in accordance with the instructions contained in enclosure (1).



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b. Materiel Planning Studies will be prepared and submitted as required for the items listed in enclosure (2) for the Navy's Program Objectives Memorandum (POM), and within 2 weeks of release of the following budgets: Navy Comptroller (NAVCOMPT), Office of Secretary of Defense (OSD), Congressional and Apportionment. Distribution of MPS data will be in accordance with reference (c) when directed by the Chief of Naval Operations (N411).

5. Report and Form

a. Report Control Symbol OPNAV 8000-8 is assigned for the reporting requirement contained in paragraph 4. Requirement is approved for 3 years from the date of this directive.

b. Enclosure (3), OPNAV 8000/4 is designated for MPS format and is stocked by Commander, Naval Air Systems Command (AIR-4151).



R. R. SAREERAM

By direction

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# INSTRUCTIONS FOR PREPARATION OF MATERIEL STUDIES

## 1. Section I - End Item/Component Identification.

a. End Item/Component Nomenclature. Enter approved nomenclature of end item or component under study. Additionally, substitute items shall be included.

b. Line Item Number. This ten digit number refers to a specific Future Years Defense Plan Item; Department of Defense Codes are same as Navy Ammunition Logistics Code (NALC); first eight digits refer to the Weapons Procurement, Navy/Other Procurement, Navy (WPN/OPN) budget appropriations and last two digits to specific ordnance category this item is assigned. See TAB A of enclosure (1) for listing of category codes.

c. DOD Codes. Insert DOD Codes of all items included in study.

d. Control Number/Program Code. Enter the Conventional Ammunition Integrated Management System control number which represents the roll up Navy Ammunition Logistics Codes/Department of Defense Identification Codes for Asset and Expenditure Reports; also enter the appropriate Program Code from TAB A of enclosure (1) for item being displayed on the MPS.

e. Unit of Measure. Enter unit of measure in which data is reported of MPS are being expressed, e.g., each, thousands, sets, etc. The unit of measure should be expressed in such manner so that quantities on the MPS will not exceed five digits.

f. Statistical Unit Cost. Enter unit cost based on latest budget. If item is not being procured, best estimate of procurement costs will be used and, fiscal year identified.

g. Data Prepared. Enter date study was prepared by command (month/calendar year).

h. Procurement Leadtime (months). Enter procurement leadtimes for item, both initial and reorder, and production, and administrative portions thereof.

(1) Production Leadtime. Defined as time interval expressed in months between placement of contract and acceptance/availability for issue of first item from that year's funds.

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(a) Initial. Time interval expressed in months if item is not under production as of contract date.

(b) Reorder. Time interval expressed in months if item is under production as of date of contract.

(2) Administrative Leadtime. Defined as time interval between availability of funds for obligation at department level, 1 October of each fiscal year, and placement of contract.

2. Section II - Budget Year Materiel Status through Procurement Leadtime.

a. General. This section of the study indicates materiel status in terms of budget and funding periods and delineates programming objective, gains and losses, and inventory in terms of procurement leadtimes. It provides management of procurement leadtimes. It provides management with data for financial analysis, budget, review purposes, and with a ready reference for current and projected summary status. Budget year, as used here, covers period of normally 12 months deliveries when one procurement leadtime can begin until deliveries from subsequent budget leadtime can start.

b. Financial Analysis (Lines 1-15)

(1) Columns d through k. Enter budget year designation for each budget year covered by study. For example, during FY 94 POM (FY 93 Budget) cycle, the years will be FY 92 and prior, FY 93, and FY 94-99.

(2) Line 1 - Planning Objective - End of Budget Period - Columns d through k. Leave blank. Planning Objectives were not computed for POM 94.

(3) Lines 2-4 - Programming Objective - End of Budget Period - Columns d through k. Compute the Programming Objective based on data in Lines 15-25.

(4) Line 5 - Inventory - Begin Budget Period - columns d through k. Enter in Column d beginning inventory in Line 36, Column c. Columns e through k will be blank.

(5) Lines 6-8A - Gains - During Budget Period  
Line 6, Columns d through k. Enter quantity being procured with each year's funding as outlined in budget control totals. For POM development enter alternatives 1 through 3 funding levels as requested on lines 7, 8, and 8A.

(6) Line 9 - Losses - During Budget Period - Columns d through k. Enter total losses, Line 35 through procurement leadtime, for each budget year.

(7) Line 10-12A - Inventory - End of Budget Period - Line 10, Columns d through k. Compute inventory using Column d, Line 5, plus Lines 6, 7 or 8 of current year, minus Line 9 of current year for budget control dollars. Lines 11, 12 and 12A will be computed for POM development using POM guidance and alternatives 1 through 3 from Lines 7, 8, and 8A.

(8) Lines 13-15 - Annual Cost of Procurement Plan - Line 13 Columns d through k. Enter funding budgeted for quantities shown in Line 6 for each budget year with control total dollars. Lines 14, 15 and 14A will be computed using POM development guidance and alternatives from Lines 7, 8 and 8A.

### 3. Section III - Current and Forecast Materiel Status

a. Enter in boxes to right of Elements of Study fiscal year covered. Column c should be cut-off date of inventory followed in Columns d through k by end fiscal year through leadtime of last budget year shown in Section II.

b. Lines 16-25 - Planning/Programming Objectives. This requirement will be computed for each fiscal year based on level of support for each scenario as defined in OSD Logistics Defense Planning Guide and displayed as shown on form for these six categories to allow analysis of each scenario applicable to MPS item. Leave Line 25 blank - no Planning Objectives were computed for POM 94.

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c. Lines 26-30 - Gains. This section will record planned acceptance during each fiscal year identified by fiscal year in which items were funded from resources within current control dollars. Assets being received from sources other than production, such as transfers from other services, replacement in kind or paybacks, shall be entered in Line 29 and annotated.

d. Lines 31-35 - Losses. Enter current Non-Combat Expenditure Allocations and outyear Non-Combat Expenditure Objectives (NCEO), peacetime consumption on Line 31, and identify transfers Line 32 and conversions Line 32, and modifications (Line 33). Enter total of 31 through 34 on Line 35.

e. Line 36 - Planned Inventory - Cumulative sum of Line 36c plus Line 30d minus Line 35d equals inventory entered on Line 36d, and so forth across the page.

(1) Column c. Enter total inventory on hand as cut-off date of the study. It should be sum of serviceable/unserviceable assets shown in Section IV.

(2) Columns d through k. Enter cumulative sum of Line 36c, plus Line 30, minus Line 35 for each fiscal year.

f. Line 37.- Planned Inventory Status - Over (+) or Short (-) Line 36 minus Line 25. Enter difference between entries on Line 36 less entries on Line 25 for each time period. Indicate averages with a plus (+) and shortages with a minus (-) sign.

4. Page 11, enter header data from page 1 of MPS.

5. Section IV - Stock on Hand Information. This section of study indicates geographical location of stocks on hand and in transit, separated by serviceable and unserviceable as reported in Conventional Ammunition Integrated Management Systems (CAIMS) for all Navy Non-Nuclear Expendable and Non-Expendable Ordnance Items. CAIMS is the Navy's official asset reporting system.

6. Section V - Stock Experience

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a. General. This section has been included to balance stock transactions occurring during the previous two fiscal years from inventory to cut-off date of the study as reported via CAIMS.

b. Beginning Period. Inventory - Serviceable and Unserviceable Enter the world-wide inventory on hand and in transit at the beginning of the fiscal year in lines 1a and 1b. Data shall be extracts from CAIMS.

c. During Period

(1) Gains

(a) Acceptance. Enter quantity accepted from new production during fiscal year on Line 2a.

(b) Other Gains. Enter gains to inventory from other sources (i.e., rework, Foreign Military Sales, payback/Replacement in Kind, conversions, modifications, or other service exchanges/paybacks) during the fiscal year on Line 26.

(2) Losses. Enter the losses during the fiscal year identified by the following categories as reported to CAIMS:

(a) Combat - enter quantities of ordnance fired/expended in anger on Line 3a.

(b) Training - enter expenditures from both the users own allocation and from other major claimant's allocation for peacetime training consumption on Line 3b.

(c) Test and Evaluation - enter expenditures of ordnance for sponsors or fleet directed testing and evaluation, to include lot acceptance testing, quality evaluation, surveillance, or engineering investigations on Line 3c.

(d) Transfers - enter expenditures of ordnance outside the Navy's CAIMS reporting system (i.e., Foreign Military Sales, Other Service Contractors, etc.) on Line 3d. Sales of Navy inventory must be approved by Chief of Naval Operations (N41).



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(e) Disposal - enter expenditures by survey, stratification, jettison, etc. (to include disposal of unserviceable stocks, items not repairable or beyond economical repair on Line 3e.

(f) Operations - enter expenditures for routine operations in the execution of the units assigned mission (i.e., search and rescue or evaluation; humanitarian or life saving missions); firings for which a training allocation has not been established.

(g) Loss by Inventory - enter transactions for actual ordnance not accounted for in CAIMS on Line 3g. Corresponding Missing, Lost, Stolen Reports (MLSR) shall be processed.

(3) Stock Adjustment. Enter difference between beginning period inventory, plus gains, minus losses, and end of period inventory on Line 4. Negative adjustments will be preceded by a minus (-) sign.

d. End Period. Enter total inventory on hand and in transit, service/unserviceable at the end of fiscal year reported in CAIMS on Line 5.

#### 6. Section VI - Retention Level

a. Peacetime Usage from \_\_\_\_\_ thru FY \_\_\_\_\_ PLT. Enter inventory cut-off date and budget year. Compute losses from Section II, Line 9 for this period.

b. Planning Objective. Enter Programming Objectives from Section II, Line 2.

c. Approved Forces Acquisition Objective. Enter total of Lines (a) and (b) above.

d. Economic Retention Level. Enter the peacetime consumption for 6 budget years following the budget year in a above from Section II, Line 9. In addition, enter the increase to the Programming Objective between the current budget year in a above and the last budget year shown in Section II, Line 2. If the Programming Objective decreases, no entry will be shown.

e. Allied Forces Contingency Level. Enter the quantity required for support of approved Allied Forces.

f. U.S. Forces Contingency Level. Enter the sum of c, d, e, and f above.

7. Section VII - Remarks. Type of information to be entered in this section includes, but are not limited to following:

a. A brief description of end item or component and its characteristics.

b. The basic source documents used in preparing the data. (POM\_\_, Non-Combat Expenditure Allocation/Non-Combat Expenditure Objective\_\_, Budget\_\_ with issuing organization serial number letters and date.

c. Explanations of entries which deviate from data normally included.

d. Enter unit cost of item for POM development and alternatives from Section II, Lines 7, 8, and 8A.

e. Enter Program Element (PE) number and percentage of requirement breakdown from Section II, Line 2 for each year of POM.

8. Section VIII - Approval. This section is provided for signature/approval of study by appropriate activity.

WEAPON CATEGORY/PROGRAM CODE	
01	CRUISE MISSILES
02	SURFACE MISSILES
03	AIR MISSILES
04	TORPEDOES
05	MINES
06	SONOBUOYS
07	SURFACE MUNITIONS (WPN)
08	AIR MUNITIONS (WPN)
09	EXPENDABLE COUNTERMEASURES
10	LOE MISSILES
17	SURFACE MUNITIONS (OPN)
18	AIR MUNITIONS (OPN)

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LIST OF END ITEMS/COMPONENTS TO BE COVERED

20MM Aircraft Gun Ammunition/PGU  
25MM Aircraft Gun Ammunition/PGU  
Aircraft Parachute Flares  
Marine Location Markers  
2.75" Rocket Motors and Components  
5" Zuni Rocket Motors and Components  
Advance Rocket System (Motors and Components)  
General Purpose Bombs and Components  
Advanced Bomb Family and Components  
Laser Guided Bomb Kits (Airfoil and Computer Control Groups)  
SKIPPER AGM-123/B  
GBU-24/BLU-109 Hard Target Penetration Weapon  
Fuel Air Explosive (FAE)  
ROCKEYE  
GATOR MK 339 Fuze  
GATOR FMU-140  
WALLEYE I  
WALLEYE II  
HARM  
SHRIKE  
TOW  
TOW IIA  
IIR Maverick  
Laser Maverick  
SPARROW AIM-7F/M/P/R  
SIDEWINDER AIM-9H/M/P/R  
PHOENIX AIM-54 A/C  
Sonobuoys  
Underwater Sound Signals  
SEASPARROW (IPD/BPD)  
HARPOON (AGM/RGM/UGM)  
SLAM  
HELLFIRE  
Standard Missile MR  
Standard Missile ER  
ASROC Missile  
Torpedo MK 46 MOD 5  
Torpedo MK 60  
Torpedo MK 48 Mod 4  
Torpedo ADCAP  
CAPTOR MK 60  
QUICKSTRIKE  
SLMM MK 67  
Pyro/Demo

Enclosure (2)

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20MM f/CIWS  
25MM Surface Gun Ammunition  
40MM Ammunition  
76MM Ammunition  
5"/54 Charges  
5"/54 Projectiles  
Other Ship Gun Ammunition  
Small Arms and Landing Party Ammunition  
Cartridge Actuated Devices (CARTS/CADS)  
Pilot Actuated Devices (AEPS)  
Surface Launched Expendable Countermeasures  
Submarine Launched Expendable Countermeasures  
Air Launched Expendable Countermeasures  
TOMAHAWK Surface TASM  
TOMAHAWK Surface TLAM C/D  
TOMAHAWK Submarine TASM  
TOMAHAWK Submarine TLAM C/D  
STINGER  
PENGUIN  
Rolling Airframe Missile (RAM)  
TALD/ITALD  
AMRAAM

**CONFIDENTIAL (When filled in)**

# Materiel Planning Study

SECTION-I ITEM IDENTIFICATION										DATE PREPARED:	
ITEM NOMENCLATURE:		CONTROL NO.:		UNIT/MEASURE:							
PROGRAM CODE:		UNIT/COST:		PROCUREMENT LEAD TIME (MONTHS)		TOTAL:					
INITIAL/REORDER:		ADMIN:		PROD:							
SECTION-II BUDGET YEAR THRU PROCUREMENT LEAD TIME											
#	C ELEMENTS OF STUDY	D FY__	S FY__	E FY__	F FY__	G FY__	H FY__	I FY__	J FY__	K FY__	
01	PLANNING OBJECTIVE										
02	PROGRAMMING OBJECTIVE										
03											
04											
05	INVENTORY-BEGIN BUDGET PERIOD										
06	GAINS-DURING BUDGET PERIOD										
07	ALT 1										
08	ALT 2										
08A	ALT 3										
09	LOSSES-DURING BUDGET PERIOD										
10	INVENTORY-END OF BUDGET PERIOD										
11	ALT 1										
12	ALT 2										
12A	ALT 3										
13	COST OF PROCUREMENT (\$M)										
14	ALT 1										
15	ALT 2										
15A	ALT 3										
SECTION-III CURRENT AND FORECAST MATERIAL STATUS											
L	M	N	PAGE								
FY__	FY__	FY__	FY__								
16	PROGRAMMING OBJECTIVE										
17	LANT										
18	EUR										
19	PAC										
20	MAINTENANCE PIPELINE										
21	PEACETIME PIPELINE										
22	ROK										
23											
24											
25	TOTAL PLANNING OBJECTIVE										
26	PRIOR YEAR FUNDED FY										
27	CURRENT YEAR FUNDED FY										
28	FY THRU FY										
29	RECEIPTS OTHERS										
30	TOTAL GAINS										
31	LOSSES-NCEANCO										
32	LOSSES-CONVERSIONS										
33	LOSSES-MODIFICATIONS										
34	LOSSES-TRANSFERS										
35	TOTAL LOSSES										
36	PLANNED INVENTORY										
37	PLANNED INVENTORY STATUS										

**CONFIDENTIAL (When filled in)**

OPNAVINST 8000.14C		PAGE 2 (continuation)	
WEAPONS STATUS REPORT		DATE:	
VOLUME PAGE		NALC:	
		CONTROL NO:	
		LINE ITEM NO:	
*****SECTION IV STOCK ON HAND*****			
AREA	ON HAND	SERVICE	REPAIR
LANT	ON HAND		
	IN TRANSIT		
	TOTAL		
EUR	ON HAND		
	IN TRANSIT		
	TOTAL		
PAC	ON HAND		
	IN TRANSIT		
	TOTAL		
CONUS	ON HAND		
	IN TRANSIT		
	TOTAL		
WORLD	ON HAND		
WIDE	IN TRANSIT		
	TOTAL		
*****SECTION V STOCK EXPERIENCE*****			
PERIOD	FY	FY	FY
BEGIN			
1. INVENTORY			
a. SERVICABLE			
b. REPAIRABLE			
2. GAINS			
a. ACCEPTANCE			
b. OTHER			
3. LOSSES(-)			
a. COMBAT			
b. TRAINING			
c. TEST			
d. TRANSFER			
e. DISPOSAL			
f. OPERATIONS			
g. LOSS BY INVENTORY			
4. STOCK ADJUSTMENT (+/-)			
5. TOTAL INVENTORY			
*****SECTION VI RETENTION LEVEL*****			
PEACETIME USAGE FROM			
THRU FY PLT			
PROGRAMMING OBJECTIVE			
APPROVED FORCES			
ACQUISITION OBJECTIVE			
ECONOMIC RETENTION LEVEL			
ALLIED FORCES			
CONTINGENCY LEVEL			
U.S. FORCES			
CONTINGENCY LEVEL			
TOTAL RETENTION LEVEL:			
*****SECTION VII REMARKS*****			
1. Enter unit cost per each year.			
2. Enter Program Element Number and percentage breakdown per each year.			